

What is claimed is:

1. A device (7) for measuring the viscosity and/or the density of a fluid (5) using a resonator capable of mechanical vibrations, the resonator being provided capable of being brought into contact with the fluid (5), an oscillator circuit (2) being provided, wherein the oscillator circuit (2) has a first feedback network ( $K_1$ ) and a second feedback network ( $K_2$ ).
2. The device (7) as recited in Claim 1, wherein the first feedback network ( $K_1$ ) is provided as a feedback network having a resonator (Q) functioning as a sensor as the frequency-determining element; and the second feedback network ( $K_2$ ) is provided as a feedback network having correction capacitance (C) as the frequency-determining element.
3. The device (7) as recited in one of the preceding claims, wherein the device (7) has an amplifier (V); the amplifier (V) has a first input (10); and an output (22) of the first feedback network ( $K_1$ ) and an output (32) of the second feedback network ( $K_2$ ) are supplied to the first input (10) of the amplifier (V), the difference of the outputs (22, 32) of the feedback networks ( $K_1$ ,  $K_2$ ) being supplied to the first input (10) of the amplifier (V).
4. The device (7) as recited in Claim 3, wherein the amplifier (V) has an output (12), the amplifier output (12) being connected to an input (21) of the first feedback network ( $K_1$ ) and to an input (31) of the second feedback network ( $K_2$ ).

5. The device (7) as recited in Claim 4,  
wherein the amplifier output (12) corresponds to a  
first output signal (FS) of the oscillator circuit (2).
6. The device as recited in one of Claims 4 or 5,  
wherein the device (7) includes an amplification  
regulating unit (AGC), the amplification regulating  
unit (AGC) including an input (41); the amplifier  
output (12) being connected to the input (41) of the  
amplification regulating unit (AGC).
7. The device (7) as recited in Claim 6,  
wherein the amplifier (V) has a second input (11); and  
the amplification regulating unit (AGC) has an output  
(42), the output (42) of the amplification regulating  
unit (AGC) being connected to the second input (11) of  
the amplifier (V).
8. The device (7) as recited in Claim 6 or 7,  
wherein the output (42) of the amplification regulating  
unit (AGC) corresponds to a second output signal (VS)  
of the oscillator circuit (2).